

<b>Project Name/Location:</b> Columbia River Channel Improvement, RM 4+20 to 6+00, Lower Desdemona	<b>Contract Number:</b> W9127N-05-C-0012
<b>Date:</b> 06/29/2005	Karen Garmire (USACE) Present during testing

<b>Dredging</b> <b>Load Number</b> Load 415 <b>Tidal Stage</b> Flood <b>Dredge State:</b> Skimmers Down, Overflow through skimmers <b>Weather:</b> Overcast <b>Wind:</b> 5-10 kts <b>Seas:</b> 1' - 2' <b>Disposal location</b> Columbia River DWS		<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
		DR-1	20.3	7:39:59	7315439.06	959914.76	6.8	
		DR-4	18.9	7:42:51	7316165.82	958471.68	3.7	
		DR-2	21.8	7:45:28	7315775.31	959492.52	8.7	8.3
		DR-3	21.2	7:48:06	7315707.64	959586.72	7.9	
		DR-4R1	20.3	7:50:21	7316129.22	959185.12	20.9	

<b>Remarks:</b>	<b>Action Taken:</b>
DR-4 Taken out of position.	Re-test DR-4R1 taken.
	Dredging and Sampling ceased.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

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<p><b>Dredging</b></p> <p><b>Load Number</b> Load 416</p> <p><b>Tidal Stage</b> Ebb</p> <p><b>Dredge State:</b> Overflow through side discharge (Primarily Water)</p> <p><b>Weather:</b> Overcast</p> <p><b>Wind:</b> 5-10 kts</p> <p><b>Seas:</b> 1' - 2'</p> <p><b>Disposal location</b> Columbia River DWS</p>	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DR-1	20.3	11:38:13	7315383.4	958633.4	8.5	
	DR-2	20.1	11:39:38	7316050.8	959030.34	4.8	8.8
	DR-4	19.8	11:41:11	7315484.3	959791.11	2.1	
	DR-3	19.8	11:43:54	7316636.1	959096.21	2.9	

<b>Remarks:</b>	<b>Action Taken:</b>
All samples within compliance.	None
Dredge was at end of the cut where material was thin and pumping primarily water.	

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

**Project Name/Location:** Columbia River Channel Improvement, RM 4+20 to 6+00, Lower Desdemona  
**Date:** 06/29/2005  
**Contract Number:** W9127N-05-C-0012  
 Karen Garmire (USACE) Present during testing

<b>Dredging</b>	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b>Load Number</b> Load 417	DR-1	22.4	15:33:08	7315057.62	957741	4.9	
<b>Tidal Stage</b> Flood	DR-2	21.6	15:36:07	7316169.25	959134.71	4.5	9.0
<b>Dredge State:</b> Overflow through skimmers	DR-2R1	20.9	15:36:34	7316161.35	959147.22	4.9	8.7
	DR-4	20.5	15:38:24	7315150.33	957834.32	4.0	
<b>Weather:</b> Partly Cloudy	DR-3	21.1	15:41:19	7314864.16	959118.35	25.5	
<b>Wind:</b> 5-10 kts	DR-3R1	21.2	15:41:27	7314882.06	959044.56	19.2	
<b>Seas:</b> 1' - 2'							
<b>Disposal location</b> Columbia River DWS							

<b>Remarks:</b>	<b>Action Taken:</b>
DR-3 out of compliance.	Re-test DR-2R1 taken because of close proximity of sample compliance.
	Re-test DR-3R1 taken.

<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>	<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

**Project Name/Location:** Columbia River Channel Improvement, RM 10+00 to 11+10, Flavel  
**Date:** 06/29/2005  
**Contract Number:** W9127N-05-C-0012  
 Karen Garmire (COE) notified at 19:20.

<b>Dredging</b>	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b>Load Number</b> Load 418	DR-1	21.538	19:03:48	7337878.51	938267.8	2.8	
<b>Tidal Stage</b> Flood	DR-2	21.058	19:05:33	7338292.92	937775.75	17.6	8.8
<b>Dredge State:</b> Overflow through skimmers	DR-2R1	20.919	19:05:41	7338313.49	937762.71	25.5	8.7
<b>Weather:</b> Clear	DR-4	21.654	19:07:19	7338674.96	937917.79	11.1	
<b>Wind:</b> 5-10 kts	DR-3	20.837	19:10:52	7337861.09	938055.6	5.6	
<b>Seas:</b> 1' - 2'	DR-4R1	21.921	19:11:39	7338046.52	937944.34	16.0	
<b>Disposal location</b> Columbia River DWS							

<b>Remarks:</b>	<b>Action Taken:</b>
DR-2 out of compliance.	Re-test DR-2R1 taken.
DR-4 out of compliance.	Re-test DR-4R1 taken.
	Dredging ceased after last sample was recorded.

<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>	<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		